



MultiLog

Data Logger

MultiLog is an advanced and versatile multi-channel data logger designed for monitoring any combination of digital or analogue signals.

MultiLog is ideal for monitoring flow and/or pressure to assess demand, leakage and conformance in an area. It can also perform dynamic flow and pressure analysis of network models.

MultiLog's innovative secondary channel feature enables additional fast logging down to one second intervals. This is invaluable when more detailed investigation is required.



Key Features and Benefits

- **Flexible telemetry options:** Integral GSM, GPRS cellular or 3G
- **Superior system connectivity:** Up to 4-channel logging with 3 internal pressure transducers
- **Fast logging:** Secondary channel for logging to 1 second – as standard
- **Durable:** The MultiLog comes in a rugged metal case
- **Alarm:** Full alarm functionality
- **External antenna:** Optimum signal
- **Long term monitoring:** 5 year battery
- **Simplified communication:** Bi-directional flow uses single channel
- **Local data download:** Via 10 pin military plug into laptop, PC or PDA
- **Fully Waterproof:** The IP68 rating has been tested at 10 m depth over a 24 hour period
- **Pseudo channel:** True max and min flow and investigation of pressure spikes

Applications

Once installed, firmware upgrades and programming changes take place remotely. This environmentally friendly option helps reduce MultiLog's carbon footprint by removing the need for expensive and time consuming site visits. It also ensures that the logger can always be updated quickly and efficiently.

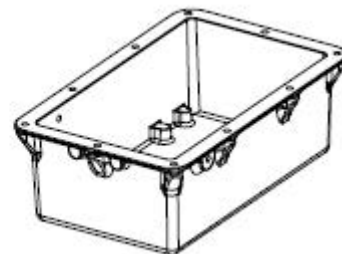
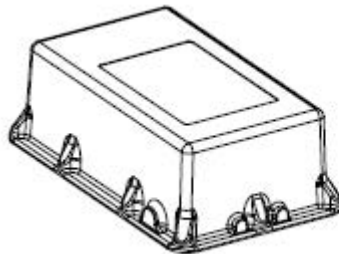
The Data can be transmitted to HWM's secure DataGate web based portal from which it can be viewed on any internet enabled device via the HWM Online website. Alternatively, the logger can send data directly to a customer specific FTP site or modem.

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

www.hwmglobal.com

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Sensor

Digital	Uni- or bi-directional pulse. Instrument powered or non-powered sensors eg PD100. Up to 128 pulses per second
Analogue	Internal Pressure Transducer. 0-20 bar / 0-200 metres head / 0-300 psig, accuracy up to $\pm 0.1\%$. External Pressure Transducer (volt) or Transmitter (mA) 0-20 bar / 0-200 metres head / 0-300 psig, accuracy up to $\pm 0.1\%$ Please note that the logger is calibrated to 10bar as standard. 20bar calibration must be specified at time of order if required. 4-20mA from isolated sensor. 0-1v, 1-5v, or 0-100mV

Communication

Serial	RS232 for connection to PDA hand held computer, laptop or desktop
GPRS/SMS/GSM	GPRS to HWM DataGate or customer specific FTP, multiple messages per day SMS text message transmitted on alarm If SIM card is enabled for GSM data service, Office PC can establish real time communications with logger for reconfiguration etc.
Cellular Module	Quad Band Cellular modem (900, 1800, 850 and 1900 MHz) Optional power up time window to receive instructions by SMS 3G Compatible modem supporting 850 900 AWS 1700,1900,2100

Logger Features

Frequency	Sample Periods In 1 second increments up to 24 hours setting independent for primary and secondary channel
Logger ID	Up to 8 alphanumeric characters
Site ID	Up to 127 alphanumeric characters.
Clock	On board 24 hour real time clock with date facility.
Logging Modes	Count and Event (PIT) logging modes Bi-directional capability
Dimensions	250H x 175W x 90D mm (9.9"H x 6.9"W x 3.6"D).
Construction	Die-cast aluminium enclosure.
Weight	1.6 Kg (3.5 lb). 4.5 Kg (9.9 lb)
Operating Temp	-20 to +70°C (-5 to +160°F)
Ingress protection	IP68 submersible
Power	Lithium Thionyl-Chloride cell operational for 5 years.
Secondary Channel	Can be programmed to record either fast data, average minimum, average maximum or time interval between pulses
Alarms	Multiple alarm options including Rate of Change, Profile, Minimum Night Flow and Threshold. Minimum or maximum duration-triggered threshold alarm per channel. 16 Alarms per logger. Each alarm out comment field 16 characters. Can be programmed to send SMS alarm to up to 16 telephone numbers.
Memory	Primary recording 179,760 readings. Can be programmed to read continuously (cyclic mode) or for a specific period of time (block). Secondary recording 6,144 readings.



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